

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))				Docket No. 18493	
In Re Application Of: Kazuhiko Inoue, et al.					
Application No. 10/518,859	Filing Date December 17, 2004	Examining Office unassigned	Customer No. 23389	Group Art Unit 1711	Confirmation No. 5819
Title: BIODEGRADABLE RESIN, BIODEGRADABLE RESIN COMPOSITION, BIODEGRADABLE MOLDED BODY, METHOD OF PRODUCING BIODEGRADABLE RESIN					
<p>Address to:</p> <p>Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</p> <p>37 CFR 1.97(b)</p> <p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p style="text-align: center;">37 CFR 1.97(c)</p> <p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p> <p style="margin-left: 40px;"><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p> <p style="text-align: center;">OR</p> <p style="margin-left: 40px;"><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p>					

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
18493

In Re Application: **Kazuhiko Inoue, et al.**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/518,859	December 17, 2004	unassigned	23389	1711	5819

Title: **BIODEGRADABLE RESIN, BIODEGRADABLE RESIN COMPOSITION, BIODEGRADABLE MOLDED BODY, METHOD OF PRODUCING BIODEGRADABLE RESIN**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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March 24, 2005

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Paul J. Esatto, Jr., Reg. No. 30,749
Scully, Scott, Murphy & Presser

Dated: **March 24, 2005**

CC:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kazuhiko Inoue, et al.

Art Unit: 1711

Serial No: 10/518,859

Docket: 18493

Filed: December 17, 2004

Confirmation No. 5819

For: BIODEGRADABLE RESIN, BIODEGRADABLE
RESIN COMPOSITION, BIODEGRADABLE
MOLDED BODY, METHOD OF PRODUCING
BIODEGRADABLE RESIN **Dated:** March 24, 2005

Mailstop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Japanese Patent Application Laid Open (JP-A) No. 06-192375, dated July 12, 1994, together with English-language Abstract;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

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Dated: March 24, 2005



Paul J. Esatto, Jr.

2. L.P. Engle, et al., "A Review of Thermally Controlled Covalent Bond Formation in Polymer Chemistry", J. Macromol. Sci. Re. Macromol. Chem. Phys., vol. 33, no. C3, pp 239-257, 1993;
3. Nakane et al., "Vinyl Ether Blocked Carboxylic Acid and Its Application", Shikizai, (Coloring Matetrial), vol. 67, No. 12, pp. 766-774, 1994;
4. Nakane et al., "Carboxylic Acid Blocked by Vinyl Ether and Its Application (II) Effect of catalyst on curing reaction of the cross linking system with epoxide", Shikizai (Coloring Material), vol. 69, No. 11, pp. 735-742, 1996;
5. Japanese Patent Application Laid-Open (JP-A) No. 11-035675, dated February 2, 1999, together with English-language Abstract;
6. Japanese Patent Application Laid Open (JP-A) No. 07-247364, published September 26, 1995, together with English-language Abstract;
7. Japanese Patent Application National Publication (Laid-Open) No. 10-508655, dated August 25, 1998 with Abstract of corresponding WO 96/15159 published on May 23, 1996;
8. Japanese Patent Application Laid-Open (JP-A) No. 11-106578, dated April 20, 1999, together with English-language Abstract;
9. Japanese Patent Application Laid-Open (JP-A) No. 2000-34376, dated February 2, 2000, together with English-language Abstract;
10. Japanese Patent Application Laid-Open (JP-A) No. 2000-281805, dated October 10, 2000, together with English-language Abstract;
11. Yano Shinichi, Ionomer no bussei to Kougyouteki Ouyou (Physical Property and Industrial Application of Ionomer);
12. M. R. Tant et al., Ionomers , Synthesis Structure Properties and Applications, (ISBN: 0-7514-0392-X);
13. Chan-Ming Dong et al., "Synthesis of star-shaped poly (D.L-lactic acid-alt-glycolic acid) with multifunctional initiator and SnOct₂ catalyst", Polymer, vol. 42, pp. 6891-6896, 2001;
14. Ruckenstein, et al., "Crosslinking of Chlorine-Containing Polymers by Dicyclopentadiene Dicarboxylic Salts", Journal of Polymer Science: Part A: Polymer Chemistry, vol. 38, pp. 818-825 (2000);
15. U.S. Patent No. 3,872,057, granted March 18, 1975 to Pazos;

16. Japanese Patent Application Laid-Open (JP-A) No. 60-179479, dated September 13, 1985;
17. Chujo et al., "Reversible Gelation of Polyoxazoline by Means of Diels-Alder Reaction", American Chemical Society (Macromolecules, Vol. 23, 2636-2641 (1990);
18. Canary, et al., "Thermally Reversible Crosslinking of Polystyrene via the Furan-Maleimide Diels-Alder Reaction", Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 30, pp. 1755-1760 (1992);
19. Masahiro, et al., Keihjo Kioku Polymer no Zairyo Kaihatsu), Development of Shape-memory Polymers, (ISBN 4-88231-064-3);
20. U.S. Patent 5,043,396 granted August 27, 1991 to Kitahara et al.;
21. U.S. Patent No. 5,491,210, granted February 13, 1996 to Onwumere, et al.;
22. U.S. Patent No. 5,489,451, granted February 6, 1996 to Omeis, et al.;
23. International Publication No. WO 96/15159 dated May 23, 1996.
24. Japanese Patent Publication No. 2000-001529, published January 7, 2000, together with English-language Abstract;
25. Japanese Patent Publication No. 2001-081240, published March 27, 2001, together with English-language Abstract;
26. Japanese Patent Publication No. 61-205447, published September 11, 1986, together with English-language Abstract;
27. European Patent Publication No. 0 134 649A2, published March 20, 1985;
28. International Publication WO 95/20629 A1, published on August 3, 1995;
29. European Patent Publication 0 870 793A2, published October 14, 1998;
30. International Patent Publication WO 98/15347A1, published April 16, 1998;
31. International Patent Publication WO 98/55147A1, published December 10, 1998;
32. Japanese Patent Publication No. 2003-183348, published July 3, 2003.
33. International Publication No. WO 97/03130, published on January 20, 1997;
34. Japanese Patent Publication No. 2001-040078, published February 13, 2001, together with English-language Abstract;

35. Japanese Patent Publication No. 2000-063511, published February 29, 2000, together with English-language Abstract; and


36. Japanese Patent Publication No. 09-031176, published February 4, 1997, together with English-language Abstract.

Applicants are submitting copies of the above-cited references. References 1-20 are cited in the specification. References 21-32 are cited in the International Search Report dated August 19, 2003 which was filed with the present application. Reference 10 is cited in both the specification and the Search Report.

Applicants also are submitting a Translation of the International Preliminary Examination Report. The Preliminary Examination Report was filed on December 17, 2004 with the filing of the application.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,


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PJE:ae

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	Atty. Docket No. (Optional) 18493	Application Number 10/518,859
	Applicant(s) Kazuhiko Inoue, et al.	
	Filing Date December 17, 2004	Group Art Unit 1711

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	3,872,057	3/18/75	Pazos			
	5,043,396	8/27/91	Kitahara et al.			
	5,491,210	2/13/96	Onwumere et al.			
	5,489,451	2/6/96	Omeis et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		06-192375	7/12/94	Japan				
		11-035675	2/2/99	Japan				
		07-247364	9/26/95	Japan				
		10-508655	8/25/98	Japan				
		11-106578	4/20/99	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		L.P. Engle, et al., "A Review of Thermally Controlled Covalent Bond Formation in Polymer Chemistry", J. Macromol. Sci. Re. Macromol. Chem. Phys., vol. 33, no. C3, pp 239-257, 1993
		Nakane et al., "Vinyl Ether Blocked Carboxylic Acid and Its Application", Shikizai, (Coloring Matetrial), vol. 67, No. 12, pp. 766-774, 1994
		Nakane et al., "Carboxylic Acid Blocked by Vinyl Ether and Its Application (II) Effect of catalyst on curing reaction of the cross linking system with epoxide", Shikizai (Coloring Material), vol. 69, No. 11, pp. 735-742, 1996
		Yano Shinichi, Ionomer no bussei to Kougyouteki Ouyou (Physical Property and Industrial Application of Ionomer)

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE	Atty. Docket No. (Optional) 18493	Application Number 10/518,859
	Applicant(s) Kazuhiko Inoue, et al.	
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FOREIGN PATENT DOCUMENTS

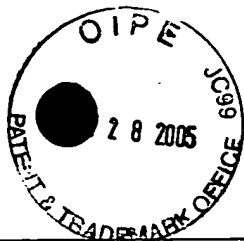
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2000-34376	2/2/00	Japan				
	2000-281805	10/10/00	Japan				
	60-179479	9/13/85	Japan				
	WO 96/15159	5/23/96	PCT				
	2000-001529	1/7/00	Japan				
	2001-081240	3/27/01	Japan				
	61-205447	9/11/86	Japan				
	0 134 649A2	3/20/85	EPO				
	WO 95/20629A1	8/3/95	PCT				
	0 870 793 A2	10/14/98	EPO				
	WO 98/15347A1	4/16/98	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	M. R. Tant et al., Ionomers , Synthesis Structure Properties and Applications, (ISBN: 0-7514-0392-X)
	Chan-Ming Dong et al., "Synthesis of star-shaped poly (D,L-lactic acid-alt-glycolic acid) with multifunctional initiator and SnOct ₂ catalyst", Polymer, vol. 42, pp. 6891-6896, 2001
	Ruckenstein, et al., "Crosslinking of Chlorine-Containing Polymers by Dicyclopentadiene Dicarboxylic Salts", Journal of Polymer Science: Part A: Polymer Chemistry, vol. 38, pp. 818-825 (2000)
	Chujo et al., "Reversible Gelation of Polyoxazoline by Means of Diels-Alder Reaction", American Chemical Society (Macromolecules, Vol. 23, 2636-2641 (1990)

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Sheet 3 of 3

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		Filing Date December 17, 2004		Group Art Unit 1711			
FOREIGN PATENT DOCUMENTS							
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						YES	NO
	WO 98/55147A1	12/10/98	Japan				
	2003-183348	7/3/03	Japan				
	WO 97/03130	1/20/97	Japan				
	2001-040078	2/13/01	Japan				
	2000-063511	2/29/00	Japan				
	09-031176	2/4/97	Japan				
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		Canary, et al., "Thermally Reversible Crosslinking of Polystyrene via the Furan-Maleimide Diels-Alder Reaction", Journal of Polymer Science: Part A: Polymer Chemistry, Vol. 30, pp. 1755-1760 (1992)					
		Masahiro, et al., Keihjo Kioku Polymer no Zairyo Kaihatsu), Development of Shape-memory Polymers, (ISBN 4-88231-064-3)					
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